

## **September 2005 - Review of Weather Including Temperatures and Precipitation for the Quad State Region.**

### **Weather Summary for September 2005**

#### **Precipitation**

September's weather was a little more quiet compared to months past. However, not to be outdone by previous months, the remnants of Hurricane Rita did bring moderate to heavy rain during the latter half of the month. Temperatures for the month were 3 to 4 degrees warmer than normal (73 to 75 degrees). Rainfall was highly variable. Even with Rita's rains, both Paducah and Evansville ended the month with below normal rainfall while Cape Girardeau was over 1 inch above normal.

The first half of September was relatively quiet with high pressure firmly in control at the surface and aloft. A couple of weak fronts provided trace amounts of precipitation, especially to northern counties on the 8<sup>th</sup>. With warm southerly flow, temperatures were quite warm during the period with highs topping out daily in the 80s and even a few 90s.

The second half of the month was more active and unsettled. A stronger cold front passed through on the 15<sup>th</sup> triggering showers and thunderstorms. Rainfall was highly variable ranging from a few hundredths to almost 2 inches (Cape Girardeau). A few days later, an upper level disturbance triggered thunderstorms that produced some wind damage to parts of the region. Rainfall was generally less than one-half inch. Other weaker cold fronts passed through on the 20<sup>th</sup> and 23<sup>rd</sup>. Rainfall was showery and amounts were generally less than one-quarter inch.

Hurricane Rita made landfall along the coast near the Texas/Louisiana border on the 24<sup>th</sup> and moved north into southern Missouri. A cold front approached from the Central Plains on the 25<sup>th</sup> pulling what remained of Rita quickly to the northeast. Rainfall was widespread with a few embedded thunderstorms. Amounts generally ranged between one and two inches.

The first taste of fall arrived with a strong cold front on the 28<sup>th</sup>. Scattered showers and thunderstorms produced rainfall amounts less than one inch. A few reports of severe weather were received in the form of wind damage. Temperatures which had been in the 80s fell to highs in the 60s on the 29<sup>th</sup> on cool northerly winds.

**Figure 1. September 2005 Average Daily Temperature Summaries (Degrees F) for Several Quad State Region Locations.**

<u>LOCATION</u>	<u>TEMPERATURES</u>	<u>HIGH</u>	<u>LOW</u>	<u>AVERAGE</u>
<i>Carbondale Illinois</i>	Normal (94 years)	80.6	54.9	68.0
	<b>2005</b>	85.9	61.0	73.5
<i>Cape Girardeau Missouri</i>	Normal (30 years)	80.7	58.7	69.9
	<b>2005</b>	85.3	60.1	72.5
<i>Evansville Indiana</i>	Normal (30 years)	80.7	57.7	69.5
	<b>2005</b>	83.6	60.9	72.5
<i>Paducah Kentucky</i>	Normal (30 years)	81.5	58.6	70.3
	<b>2005</b>	84.3	61.0	72.7
<i>Poplar Bluff Missouri</i>	Normal (30 years)	82.2	59.2	71.0
	<b>2005</b>	85.6	64.0	74.8

**Figure 2. September Average Monthly Precipitation (inches) and 2005 Observed Precipitation for Several Quad State Region Locations.**

<u>LOCATION</u>		<u>TOTAL PRECIPITATION</u>	<u>2005 DEPARTURE</u>
		(includes melted snow)	<u>FROM NORMAL</u>
<i>Carbondale Illinois</i>	Normal:	3.02	0.63
	<b>2005:</b>	3.65	
<i>Cape Girardeau Missouri</i>	Normal:	3.45	1.16
	<b>2005:</b>	4.61	
<i>Evansville Indiana</i>	Normal:	2.99	-0.99
	<b>2005:</b>	2.00	
<i>Paducah Kentucky</i>	Normal:	3.56	-0.07
	<b>2005:</b>	3.49	
<i>Poplar Bluff Missouri</i>	Normal:	3.41	0.87
	<b>2005:</b>	4.28	

